

CONTACT INFORMATION	School of Computer Science, Carnegie Mellon University, United States 5000 Forbes Ave, Pittsburgh, PA 15213, United States	Tel: +1-4128440907 jinpeig@andrew.cmu.edu Homepage, GitHub
RESEARCH INTERESTS	Low-Level Computer Vision, Diffusion Models.	
EDUCATION	Carnegie Mellon University , Pittsburgh, PA, United States Master, Computer Science University of Toronto , Toronto, Canada Exchange Student, Computer Science Shanghai Jiao Tong University , Shanghai, China Bachelor, Computer Science	Aug 2024 – Dec 2025 Aug 2023 – Sep 2023 Sep 2020 – Jul 2024
PUBLICATIONS	* denotes equal contribution	
	<ol style="list-style-type: none"> 1. Jinpei Guo, Yifei Ji, Zheng Chen, Yufei Wang, Sizhuo Ma, Yong Guo, Yulun Zhang, Jian Wang, “Towards Redundancy Reduction in Diffusion Models for Efficient Video Super-Resolution,” <i>arXiv</i>, 2025. 2. Jinpei Guo, Yifei Ji, Zheng Chen, Kai Liu, Min Liu, Wang Rao, Wenbo Li, Yong Guo, and Yulun Zhang, “OSCAR: One-Step Diffusion Codec for Image Compression Across Multiple Bit-rates,” <i>Neural Information Processing Systems (NeurIPS)</i>, 2025. 3. Jinpei Guo, Zheng Chen, Wenbo Li, Yong Guo, and Yulun Zhang, “Compression-Aware One-Step Diffusion Model for JPEG Artifact Removal,” <i>International Conference on Computer Vision (ICCV)</i>, 2025. 4. Tingyu Yang, Jue Gong, Jinpei Guo, Wenbo Li, Yong Guo, Yulun Zhang, “SODiff: Semantic-Oriented Diffusion Model for JPEG Compression Artifacts Removal,” <i>arXiv</i>, 2025. 5. Zheng Chen, Mingde Zhou, Jinpei Guo, Jiale Yuan, Yifei Ji, Yulun Zhang, “Steering One-Step Diffusion Model with Fidelity-Rich Decoder for Fast Image Compression,” <i>arXiv</i>, 2025. 6. Yang Li*, Jinpei Guo*, Runzhong Wang, Hongyuan Zha, and Junchi Yan, “Fast T2T: Optimization Consistency Speeds Up Diffusion-Based Training-to-Testing Solving for Combinatorial Optimization,” <i>Neural Information Processing Systems (NeurIPS)</i>, 2024. 7. Jinpei Guo, Shaofeng Zhang, Runzhong Wang, Chang Liu, and Junchi Yan, “GMTR: Graph Matching Transformers,” <i>IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)</i>, 2024. 8. Zhaoyu Li, Jinpei Guo, Xujie Si, “G4SATBench: Benchmarking and Advancing SAT Solving with Graph Neural Networks,” <i>Transactions on Machine Learning Research (TMLR)</i>, 2024. 9. Yang Li, Jinpei Guo, Runzhong Wang, and Junchi Yan, “From Distribution Learning in Training to Gradient Search in Testing for Combinatorial Optimization,” <i>Neural Information Processing Systems (NeurIPS)</i>, 2023. 10. Zhaoyu Li, Jinpei Guo, Yuhe Jiang, and Xujie Si, “Learning Reliable Interpretations with SATNet,” <i>Neural Information Processing Systems (NeurIPS)</i>, 2023. 	

INTERNSHIP	Machine Learning Engineer Intern Alipay in Shanghai, China Developed an LLM-driven time-series forecasting pipeline integrating a novel “time2text” embedding for sequential data modeling, improving generalization across diverse datasets and enabling unified prediction within a single framework.	Apr 2024 – Jul 2024
GIFT FUNDINGS AND SCHOLARSHIP	<ul style="list-style-type: none"> • Snap Inc. Gift Funding, ¥108,000 • Chiang Chen Overseas Graduate Fellowship (10 recipients nationwide), ¥360,000 • SenseTime Scholarship (30 recipients nationwide), ¥20,000 • Chinese National Scholarship, ¥8,000×2 • Shanghai Scholarship, ¥8,000 	2025 2024 2023 2022, 2023 2021
SKILLS	<ul style="list-style-type: none"> • Computing Skills: Algorithms, Data Structure, Machine Learning. • Programming: Python, C/C++, Matlab, L^AT_EX. • Programming Frameworks: Pytorch, Scikit-Learn, TensorFlow, Keras. 	